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Title: HANFORD FACILITY DANGEROUS WASTE

PART A PERMIT APPLICATION

Revision Release No.: Revision 29

MSIN:

H6-08

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RECEIPT	
Name: DP 15000	Date: 5/31/01

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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HANFORD FA	CILITY	Y DANG	EROUS WASTE PART A PERMIT A	APPLIC.	ATION (TOO	Page 4 of 4
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Last Update: May 18 2001 10:01AM

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DOE/RL-88-21 T Plant Complex Rev. 8, 2/5/01

							I. EPA/State I.D. No.
FORM 3	DAN	GEROUS	S WASTE PERMI	IT APPLICA	TION	w	A 7 8 9 0 0 0 8 9 6 7
FOR OFFICIAL U	SE ONLY						
Application Approved	Date Received (month/day/year)			Cor	nments		
				Approve	ed 05/15/01		
I. FIRST OR REV	ISED APPLICATI	ON					<u> </u>
	s your first application		rk one box only) to indicate why know your facility's EPA/ST				your facility or a revised nter your facility's EPA/STATE
A. First Applicatio	n (place an "X" below ting Facility (See installow)	v and provide the tructions for def	e appropriate date) inition of "existing" facility. C	complete	2. New Facility (C	Complete it	em below)
MO DA 1	YYR	For existi		construction ommenced.	MO DAY YR	י [For new facilities, provide the date (mo/day/yr) operation began or is expected to begin
Deviced Applica	tion (place an "X" be	low and comple	(Use the boxes	to the left.)			
1. Facility	Has An Interim St	itus Permit	2. Facility E	las A Final Permit			
II. PROCESSES	CODES AND DES	IGN CAPACIT	TIES				
	sure - For each amou sure that are listed bel			i the list of unit meas	ure codes below that de	scribes the	unit of measure used. Only the
	I	PROCESS		PROCESS CODE			OF MEASURE FOR N CAPACITY
STORAGE:							
	rel, drum, etc.)			S01	Gallons or liters		
Tank			•	S02	Gallons or liters		
Waste pile				S03	Cubic yards or cubic	neters	
Surface impou	ndment			S04	Gallons or liters		
DISPOSAL:	ouilding storage*			S06	Cubic yards or cubic	neucis*	
Injection well				D80	Gallons or liters		
Landfill			<i>,</i>	D81			cover one acre to a depth of
Land applicati	on			D82	Acres or hectares	_	
Ocean disposa				D83	Gallons per day or lite	ers per day	
Surface impou	indment			D84	Gallons or liters		
TREATMENT:				701	Callana dan an lis		
Tank Surface impou	ndment			T01 T02	Gallons per day or lite Gallons per day or lite		
Incinerator	ensitett			T03			hour, gallons per hour or
occurring in ta	physical, chemical, t riks, surface impound ovided: Section III-C	iments or incine	gical treatment processes not rators. Describe the processes	Т04	Gallons per day or lite	ers per day	
Units of Measur Gallons	e Unit of Me		Units of Measure Liters Per Day	Unit of Measure	V Acre-Feet		Unit of Measure Code
Liters		L	Tons Per Hour		D Hectare-M	eter	F
Cubic Yards		Y	Metric Tons Per Hour		W Acres		В
Cubic Meters		L	Geilons Per Hour		E Hectares		Q
			Liters Per Hour		บ		

ECY 030-31 Form 3 (Rev. 7/97)

^{*}Add per request of Washington State Department of Ecology (01/2001)

III. PROCESSES - CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can

hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

				B. Process Design Capacity					
Line No.	A. I	Process (m list ab	Code ove)	1. Amount (specify)	ilt of Measure enter code)	For	Offici	al Use (Duly
X-1	S	0	2	600	G			[i	
X-2	Т	0	3	20	E				
1	S	0	2	292,990	L				
2	T	0	1	204,412	V				
3	Т	0	4	150	s				
4	S	0	1	946,352	L				
5	s	0	6	35,170	С				
6									
7									
8									
9									
10									

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

The T Plant Complex (T Plant) was constructed in 1943 and began decontamination operations in 1957.

S02

Liquid mixed waste from treatment activities within T Plant enters T Plant tank system and is stored until transferred to an onsite treatment, storage, and/or disposal (TSD) unit or offsite facility that is capable of managing this waste.

Liquid mixed waste from T Plant treatment activities is currently being stored in 2706-T tank system consisting of tanks 220 and 221. the 221-t tank system consists of six storage tanks: tank 5-6, tank 5-7, tank 5-9, tank 6-1, tank 11-R, and tank 15-1.

The maximum process design capacity for volume of liquid mixes waste that will be stored at T Plant in existing tanks at any time is 292,900 liters (77,400 gallons). The T Plant tank system will be managed in a manner that ensures that the process design capacity is not exceeded.

T01

Liquid mixed waste that is treated in the T plant tank system is transferred to an onsite TSD unit or offsite facility that is capable of managing this waste. This treatment process makes the liquid mixed waste more amenable for transfer and/or storage. The maximum tank treatment process design capacity is 204,412 liters per day (54,000 gallons) per day.

<u>T04</u>

Within T Plant, dangerous and/or mixed waste treatment and storage activities occur in the 2706-T building, 221-T canyon, and in other support facilities and units. Types of treatment that could be required to make the dangerous and/or mixed waste more amenable for storage and/or disposal include those identified in Washington Administrative Code 173-303-380. Treatment associated with dry and liquid dangerous and/or mixed waste could include, but is not limited to sorting, segregation, repackaging, neutralization, absorption, macroencapsulation, and compaction. Treatment capability at T Plant can consist of: (1) complete laboratory analysis and characterization of dangerous and/or mixed waste before transferring the waste to an approved onsite TSD unit or offsite facility; or (2) absorb, neutralize, immobilize, encapsulate, or otherwise stabilize the contents of some containers before transfer;(3) sort and segregate mixed waste from low-level waste; (4) prepare the mixed waste to be acceptable for transfer to an onsite TSD unit or offsite TSD facility; and/or (5) meet land disposal restriction requirements for disposal.

Dangerous and/or mixed waste treatment methods could incorporate a variety of technologies to remove mixed waste contamination. The technologies include, but are not limited to, immersion treatment; spray batch treatment; and steam, water, ice, carbon dioxide, chemical, or abrasive blasting. Various types of equipment (e.g., tools, tailroad equipment, buses, trucks, automobiles, cranes, earth moving equipment, other large and small pieces of process equipment, or other equipment and debris) can be decontaminated in 2706-T, 221-T, and other support structures within T-Plant as needed. Liquid mixed waste generated from the decontamination processes is collected and transferred to the 2706-T tank system or transferred directly to a tanker truck. From this tank system, waste is transferred to an onsite TSD unit and/or offsite TSD facility capable of accepting this waste. The maximum process design capacity for treatment is 150 metric tons (165 tons) per day. ["S" equates to "metric tons' in accordance with WAC 173-303-380(2)(c).]

S01

Storage of dry and liquid mixed and dangerous waste in various sized containers, including railroad cars, could take place in the 221-T canyon, 221-T railroad tunnel, 2706-T, 214-T storage building, and in other support structures and storage units located within the boundarties of T Plant. The containers are stored until transfer to an onsite TSD unit or offsite facility. The maximum container storage process design capacity is 946,352 liters (250,000 gallons).

<u>S06</u>

The designation S06 (containment building/storage) indicates mixed waste is stored in the 221-T canyon, 221-T railroad tunnel, and 2706-TA. This waste is considered to be stored in a containment building subject to the requirements of 40 Code of Federal Regulations (CFR) 265, Subpart DD. The mixed waste consists of waste containers, uncontainerized process equipment, jumpers, and various other items awaiting decontamination, treatment, or repackaging before final disposal. The maximum process design capacity for miscellaneous storage is 35,170 cubic meters (46,000 cubic yards).

IV. DESCRIPTION OF DANGEROUS WASTES

- A. Dangerous Waste Number Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.
 B. Estimated Annual Quantity For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic
- B. Estimated Annual Quantity For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. Unit of Measure For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE METRIC UNIT OF MEASURE CODE
Pounds P Kilograms K
Tons T Metric Tons M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant. Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the
 waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with
 above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for Completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tunning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line		A. Dan	gerous		B. Estimated Annual	C. Unit of			D. Processes
No.		Wast (enter			Quantity of Waste	Measure (enter code)		1. Pr3cess Codes (enter)	2. Process Description (if a code is not entered in D(1))
X-1	K	0	5	4	900	P	T03	D80	
X-2	D	0	0	2	400	P	T03	D80	
X-3	D	0	0	1	100	P	T03	D80	
X-4	D	0	0	2			T03	D80	included with above

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IV. DESCRIPTION OF DANGEROUS WASTES (continued)

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+		+	+	+			0 4	٥	D	40
+	 	+	+	+			0 3	0	D	39
+	_	+	+	+	_		0 2	<u> </u>	D	38
Storage - Container/Treatment - Other		T04	S01	*		40,831,030	0 1	0	Þ	37
Included with above	+	L	4	+			3 9	°	Ŧ	36
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+	+	+	+	+			0 3	0	77	33
+	+	+	+	+			0 2	0	F	32
+	+	+	4	+			0	°	-73	31
+	+	+	+	+			0 2	P	W	30
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Storage - Tank/Treatment - Tank-Other (Decontamination Activities)	T04	T 01	S02	<u> </u>		181,788,195	0 1	0	D	
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2. Process Description		1. Proces		Measure	Ĭ.	B. Estimated Annual Ouantity of Waste	,	Waste No.	?	Z E
					,]	NOOC II TO LESS (Personnessy)				

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106	F	0	2	8			4		+	+			*
107	F	0	3	9			+		+	+	,		4
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109	U	0	0	2			+		¥	+			*
110	U	0	0	3		$\neg \neg$	+		+	+			.
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112	U	0	0	5			+		+	+			<u> </u>
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126	ט	0	2	0			+		+	+			+
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128	Ū	0	2	2			+		+	+			*
129	υ	0	2	3			+		+	+			4
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131	U	0	2	5			+		4	+			+
132	U	0	2	6			+		+	+			*
133	U	0	2	7			+		+	+			*
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583	U	0	3	6			+		4				+
584	υ	0	3	7			+		4				+
585	υ	0	3	8			+		+		-		+
586	U	0	3	9			+		4				4
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722	U	1	8	1			-	-	+			+
723	U	1	8	2			¥		+			+
724	U	1	8	3			- 	\neg	*	 		*
725	U		8	4			¥		+	 		+
726	U	- -	8	5			¥		,	 		*
727	U	1	8	6			4		¥			4
728	U	1	8	7			+		+			*
729	U		8	8			→		+	 		*
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731	Ų	1	9	0			-		+	 -,		+
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750	υ	2	1	4			+		+			
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770	υ	2	4	2			*		+	 		-
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776	U	2	4	9			+		+		 	+
777	υ	2	7	1			_		+		 	+
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785	U	3	6	7			+		→		 <u> </u>	*
786	U	3	7	2	<u> </u>	\vdash	*		<u>+</u>			+
787	υ	3	_7_	3			*		-			+
788	U	3	8	7		<u> </u>	→		+			+
789	υ	3	8	9			-		-		 	+
790	U	3	9	4			→		+			+
791	U	3	9	5			→		→		 ·	•
792	U 	4	0	4			+		+		 	Ψ
793	U	4	0	9		Ш	+		+		 	*
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806	P	0	1	1			+		+		 	-
807	P	0	<u> </u>	2		 	+		-		 	*
808	P	0	1	3			+		*		 <u> </u>	+
809	P	0	1	4		-	+		+		 	*
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816	P	0	2	2			+		+			.
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818	P	0	2	4			+		+			*
819	P	ō	2	6			+		+			+
820	P	0	2	7			+		+		 	+
821	P	0	2	8			+		+			+
822	P	0	2	9			+		+		<u> </u>	+
823	P	0	3	0			+		+			+
824	P	0	3	1			+		+			→
825	P	0	3	3		i	+		-			+
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1 4							1						
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830	P	0	3	9			+		_ ↓				Ψ
831	P	0	4	0			+						Ψ
832	P	0	4	1			₩		<u> </u>				4
833	P	0	4	2			₩		+				4
834	P	0	4	3			₩		₩				
835	P	0	4	4			+	Ì	4				+
836	P	0	4	5			+		+				Ψ
837	P	0	4	6			+		+				4
838	P	0	4	7			+		+				+
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840	P	0	4	9			¥		+				+
841	P	0	5	0		\neg	+		+				1
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852	P	0	6	5			+		+				Ψ
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856	P	0	6	9			+		4		l		4
857	P	0	7	0			+		Ψ.				Ψ
858	P	0	7	1			+		÷				4
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860	Р	0	7	3			+		+				4
861	P	0	7	4			+		+				+
862	P	0	7	5			+		4				4
863	Р	0	7	6			+		+				+
864	P	0	7	7			+		+				+
865	P	0	7	8			+		-				+
866	P	0	8	1			+		+				*
867	P	0	8	2			+		-				+
868	P	0	8	4			+		-				-
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-557	<u> </u>	<u> </u>	<u> </u>				لنب				ļ		<u> </u>

11. DESCRIPTION OF BANGSHOOD WASTES (Comment)	
E. Use this space to list additional process codes from Section D(1) on page 3.	
	, ·
•	
V. FACILITY DRAWING Refer to attached drawing(s).	
All existing facilities must include in the space provided on page 5 a scale drawing of	f the facility (see instructions for more detail)
VL PHOTOGRAPHS Refer to attached photograph(s).	
All existing facilities must include photographs (aerial or ground-level) that clearly d future storage, treatment or disposal areas (see instructions for more detail).	delineate all existing structures; existing storage, treatment and disposal areas; and sites of
VII. FACILITY GEOGRAPHIC LOCATION This information is pro	vided on the attached drawing(s) and photograph(s).
LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)

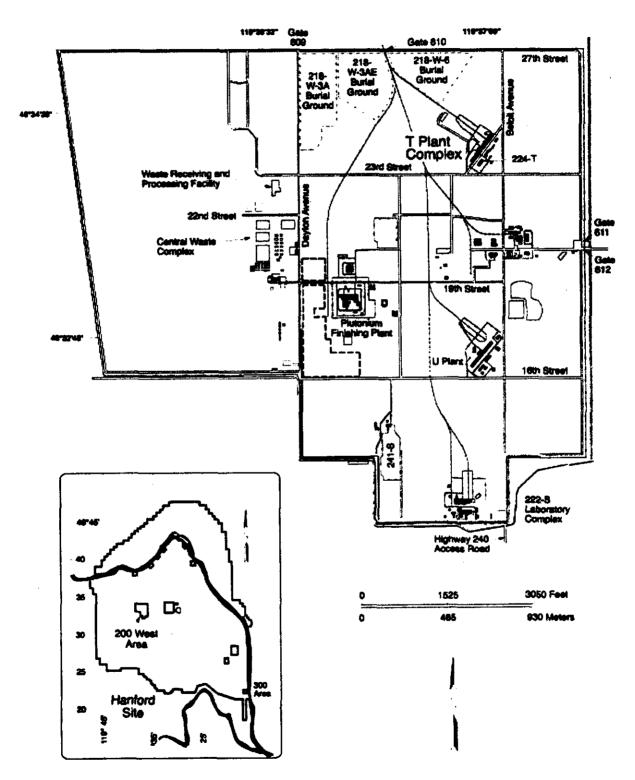
VIIL FACILITY OWNER		
below.	ted in Section VII on Form 1, "General Information", place an	"X" in the box to the left and skip to Section IX
	ed in Section VII on Form 1, complete the following items:	
1. Name of	Facility's Legal Owner	2. Phone Number (area code & no.)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	<u> </u>	
3. Street or P.O. Box	4. City or Town	5. St. 6. Zip Code
, , , , , , , , , , , , , , , , , , , 		
, , , , , , , , , , , , , , , , , , ,	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
IX. OWNER CERTIFICATION		
of those individuals immediately responsible for obtaining the significant penalties for submitting false information, includin	g the possibility of fine and imprisonment.	ccurate, and complete. I am aware that there are
Name (print or type)	Signature	Date Signed
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	02/05/2001
X. OPERATOR CERTIFICATION		
I certify under penalty of law that I have personally examined of those individuals immediately responsible for obtaining the significant penalties for submitting false information, including	and am familiar with the information submitted in this and all information, I believe that the submitted information is true, a ig the possibility of fine and imprisonment.	attached documents, and that based on my inquiry accurate, and complete. I am aware that there are
Name (print or type)	Signature	Date Signed
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

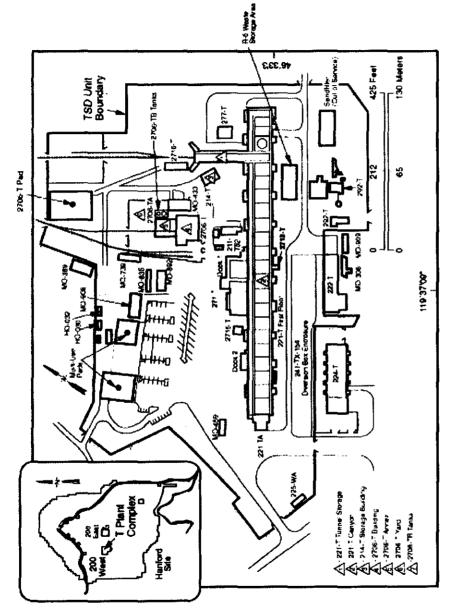
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Keith A. Klein	2/5/01	
Owner/Operator	Date	
Keith A. Klein, Manager		
U.S. Department of Energy		
Richland Operations Office		•
Dan D. Hannan	1/0/01	
Ron D. Hanson	1/9/01	·
Co-Operator	Date	
Ron D. Hanson		
President and Chief Executive Officer		
Fluor Hanford		

200 West Area Site Plan

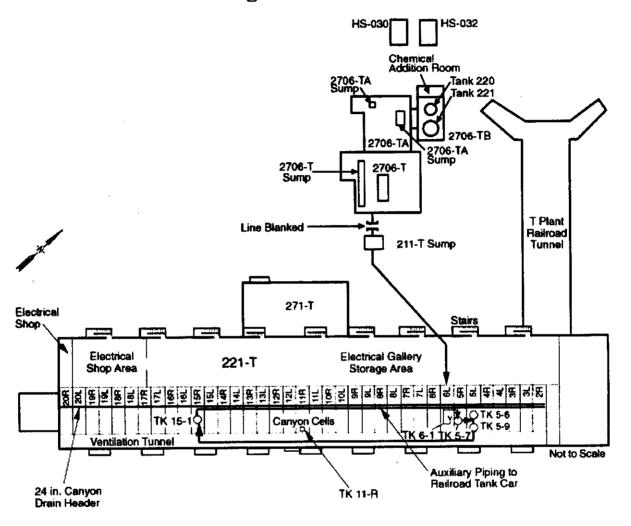


T Plant Complex Site Plan



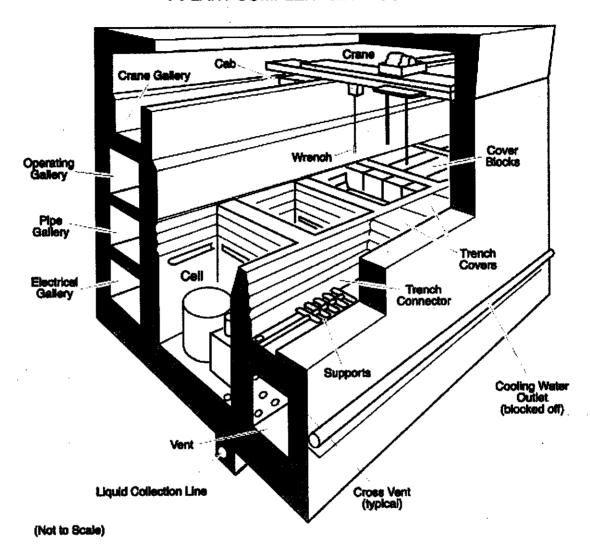
M0104-1.3

T Plant Complex Storage Tank Locations



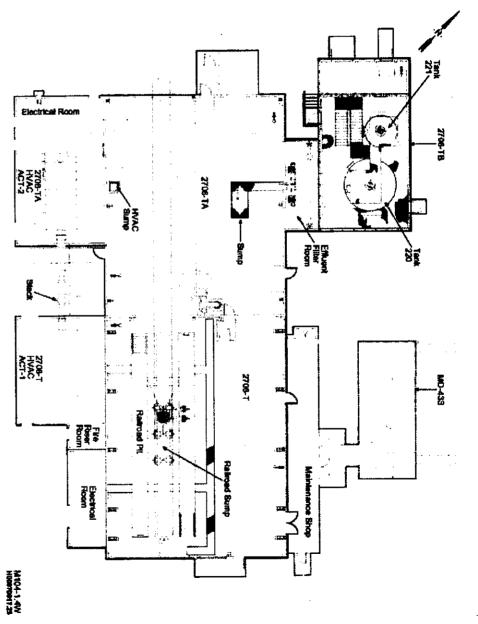
M0104-1.2

T Plant Complex - 221-T Cutaway T PLANT COMPLEX - 221-T CUTAWAY



M0105-1.2

T Plant Complex - 2706-T Site Plan



M0104-1.4

T Plant Complex Aerial View

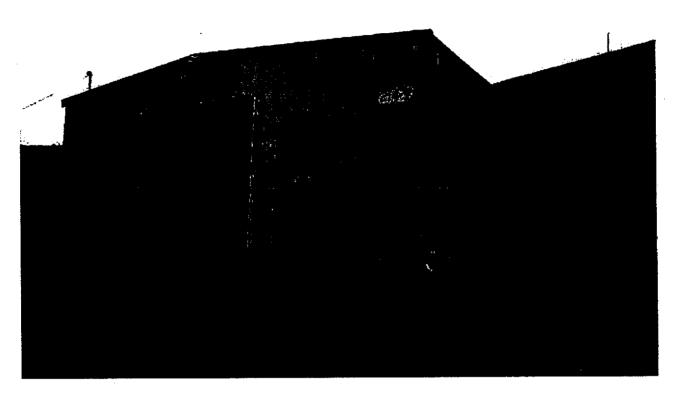


T PLANT COMPLEX

46°30'38" 119°30'40"

99060225-10CN (PHOTO TAKEN 1999)

T Plant Complex 214-T-Building



46°30'38" 119°30"40"

98030115-7CN (PHOTO TAKEN 1998)

T Plant Complex 214-T Building



INTERNAL VIEW

46°30'38" 119°30'40"

98030115-5CN (PHOTO TAKEN 1998)

T Plant Complex 211-T Waste Storage Area



46°30'38" 119°30'40"

98030115-20CN (PHOTO TAKEN 1998)

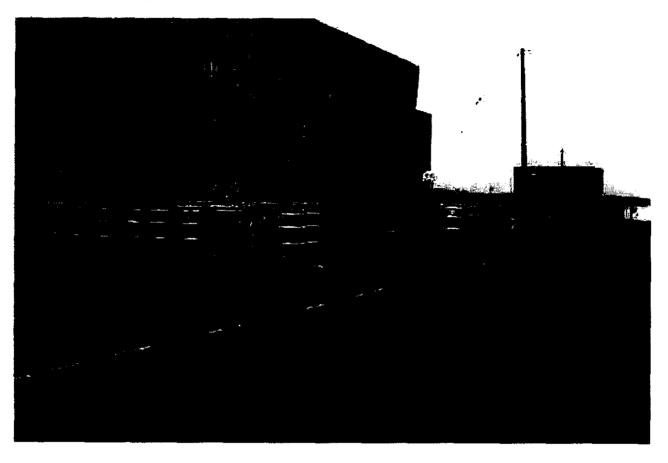
T Plant Complex 2706-T Treatment/Storage Pad



46°30'38" 119°30'40"

98030115-3CN (PHOTO TAKEN 1998)

T Plant Complex R-5 Waste Storage Area



46°30'38" 119°30'40"

98030115-23CN (PHOTO TAKEN 1998)

T Plant Complex 221-T Building

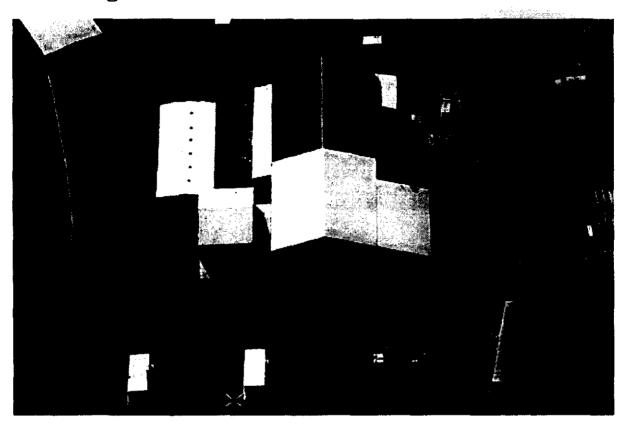


CANYON DECK

46°30'38" 119°30'40"

93051132-8CN (PHOTO TAKEN 1993)

T Plant Complex 2706-T Building



AERIAL VIEW

46°30'38" 119°30'40"

99060225-12CN (PHOTO TAKEN 1999)

T Plant Complex 2706-T Building

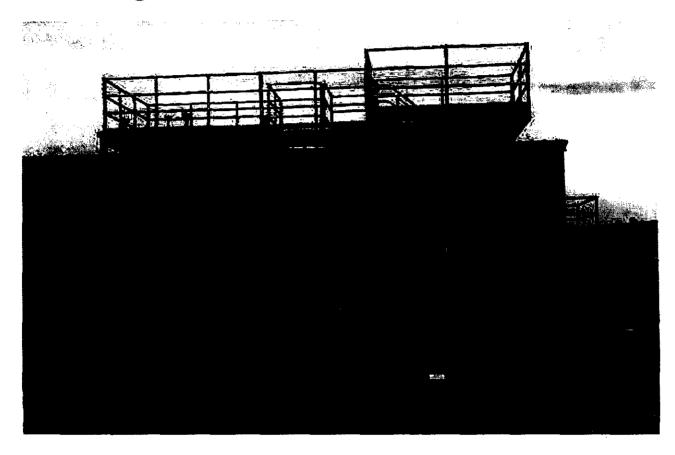


INTERIOR VIEW

46°30'38" 119°30'40"

00100005-3DF (PHOTO TAKEN 2000)

T Plant Complex 2706-T Building

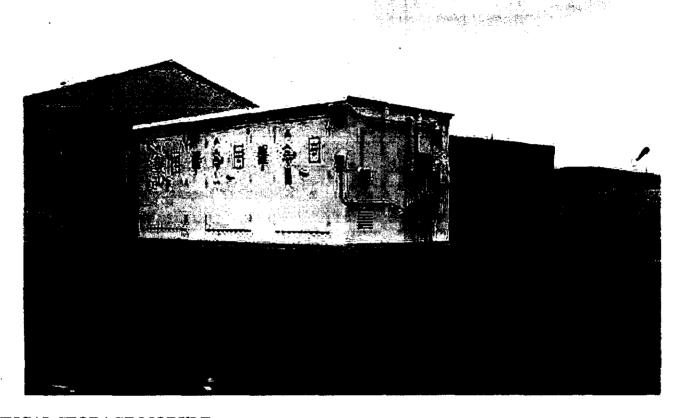


TREATMENT/STORAGE TANKS (BEFORE INSTALLATION OF 2706-TB BUILDING)

46°30'38" 119°30'40"

98030115-9CN (PHOTO TAKEN 1998)

T Plant Complex

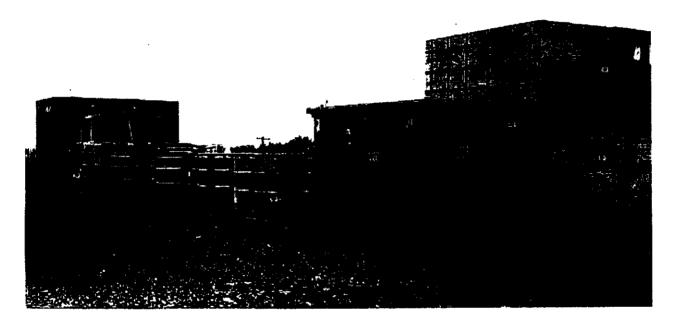


TYPICAL STORAGE MODULE

46°30'38" 119°30'40"

98030115-15CN (PHOTO TAKEN 1998)

T Plant Complex Asphalt Pad Waste Storage Area



46°30'38" 119°30'40"

98030115-11CN (PHOTO TAKEN 1998)

DOE/RL-88-21 222-S Laboratory Complex Rev. 9, 3/8/01

					I. EPA/State I.D. No.
FORM 3	DANGEROUS	WASTE PERM	IT APPLICA	ATION .	WA7890008967
FOR OFFICIAL USE	ONLY				
	Date Received nonth/day/year)		Con	nments	
<u> </u>			Approve	ed 03/19/01	
IL FIRST OR REVISE	D APPLICATION				
	r first application and you alread				tting for your facility or a revised ation, enter your facility's EPA/STATE
	ace an "X" below and provide th Facility (See instructions for def		Complete	2. New Facility (Cor	nplete item below)
MO DAY			construction commenced.	MO DAY YR	For new facilities, provide the dat (mo/day/yr) operation began or i expected to begin
		(Use the boxes	to the left.)		
	(place an "X" below and comple An Interim Status Permit	te Section I above) 2. Facility I	las A Final Permit		
III. PROCESSES - CO	DES AND DESIGN CAPACIT	TIES			
	 For each amount entered in col that are listed below should be us 		n the list of unit meas	ure codes below that descr	ibes the unit of measure used. Only the
	PROCESS	•	PROCESS CODE		UNITS OF MEASURE FOR DESIGN CAPACITY
STORAGE:					
Container (berrel, d	krum, etc.)		S01	Gallons or liters	
Tank			S02	Gallons or liters	
Waste pile			S03	Cubic yards or cubic me	ters
Surface impoundm			S04	Gallons or liters	
Containment buildi DISPOSAL:	ng storage*		S06	Cubic yards or cubic me	ters*
Injection well			D80	Gallons or liters	
Landfill			D81		at would cover one acre to a depth of
Land application			D82	Acres or hectares	
Ocean disposal			D83	Gallons per day or liters	per day
Surface impoundm	ent		D84	Gallons or liters	·
TREATMENT:			ma.	0-11	
Tank			T01	Gallons per day or liters	
Surface impoundm Incinerator	cnt		T02 T03	Gallons per day or liters Tons per hour or metric	per day tons per hour; gallons per hour or
				liters per hour	•
	sical, chemical, thermal or biolog surface impoundments or inciner ed: Section III-C.)		T04	Gallons per day or liters	per day
	Unit of Measure Code	Units of Measure Liters Per Day	Unit of Measure (V Acre-Feet	A
Liters	L	Tons Per Hour	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D Hectare-Mete	яF
Cubic Yards		Metric Tons Per Hour			В
	L	Gallons Per Hour		E Hectares	Q
Gallons Per Day		Liters Per Hour		บ	

ECY 030-31 Form 3 (Rev. 7/97)

^{*}Add per request of Washington State Department of Ecology (01/2001)

III. PROCESSES - CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can

hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

			"	B. Process Design Capacity				
Line No.	A. I	Process (m list ab	Code ove)	1. Amount (specify)	it of Measure nter code)	For	Official	Use Only
X -1	S	0	2	600	G			
X-2	Т	0	3	20	Е			
1	s	0	2	37,200	L			
2	Т	0	1	780	 v			
3	s	0	1	28,470	L ·			
4								
5	-							
6								
7								
8		<u> </u>		· · · · · · · · · · · · · · · · · · ·				
9								
10								

C. Space for additional process codes or for describing other process (code "TO4"). For each process entered here include design capacity.

The 222-S Laboratory Complex is located in the 200 West Area of the Hanford Facility and began waste management operations in June of 1951. The 222-S Laboratory Complex consists of four waste management units: 219-S Waste Handling Facility, 222-S Dangerous and Mixed Waste Storage Area, and Rooms 2-B and 4-E.

The maximun design capacity for tank storage (S02) is 37,200 liters, tank treatment (T01) is 780 liters per day, and for container storage (S01) is 28,470 liters

IV. DESCRIPTION OF DANGEROUS WASTES

- A. Dangerous Waste Number Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. Estimated Annual Quantity For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. Unit of Measure For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE

CODE

METRIC UNIT OF MEASURE Kilograms

CODE

Tons

P Kilograms
T Metric Tons

М

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant. Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the
 waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for Completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line		A. Dan	gerous		D Felimeted Annual	C. Unit of			D. Processes
No.		Wast (enter	e No.		B. Estimated Annual Quantity of Waste	Measure (enter code)		1. Pr3cess Codes (enter)	2. Process Description (if a code is not entered in D(1))
X-1	K	0	5	4	900	P	T03	D80	
X-2	D	0	0	2	400	P	T03	D80	
X-3	۵	0	0	1	100	P	T03	D80	
X-4	D	0	0	2			T03	D80	included with above

Dh.	docoru this	name before	completion	if you have mor	a than 26	wanter to	1600
гηс	NOCODY UNIS	Darke Delote	completing	if you have mor	e unan ∠o	Wastes to	1150

1.D. Number (enter from page 1)

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Line		A. Dan		j	D Fatherstad t	C.	. Unit c	of	L			D. Proc	tases
No.		Wast (enter	e No.	- {	B. Estimated Annual Quantity of Waste	M	leasur ter cod	e		1. Proce			2. Process Description (if a code is not entered in D(1))
1	D	0	0	1	283,955		K		S02	T01			Storage - Tank/Treatment - Tank
2	D	0	0	2			+		+	+			4
3	D	0	0	3			+		₩	Ψ.			. •
4	D	0	0	4			+		+	+			+
5	D	0	0	5			+		+	4			V
6	D	0	0	6			+		+	4			V
7	D	0	0	7			+		Ψ.	+			Ψ
8	D	0	0	8			+		+	+			Ψ
9	D	0	0	9			+		₩	₩			Ψ
10	D	0	1	0			+		*	4			4
11	D	0	1	1			+		4	*			4
12	D	0	1	8			*		*	*			*
13	D	0	1	9			+		+	₩			
14	D	0	2	2			4		4	*			₩
15	D	0	2	8			+		₩	4			4
16	D	0	2	9	<u> </u>		+		¥	+			Ψ
17	D	0	3	0			+		+	+			4
18	D	0	3	3			4		1	1			4
19	D	0	3	4			+		+	4			
20	D	0	3	5			+		+	1			Ψ
21	D	0	3	6			+		+	+			+
22	D	0	3	8			+		+	4			ψ
23	D	0	3	9			+		₩	+			4
24	D	0	4	0			+		+	4			4
25	D	0	4	1			+		₩	+			ψ
26	D	0	4	3			+		+	+			V
27	W	P	0	1			+		+	4		i	4
28	w	P	٥	2			+		+	₩			V
29	¥	T	0	1			+		+	+			4
30	*	T	0	2			+		₩	4			4
31	F	0	٥	1			+		4	+			
32	F	0	0	2			+		₩	+			V
33	F	0	0	3			+		4	₩			Ψ
34	F	0	٥	4			+		₩	+			
35	F	0	0	5			+		+	+			4
36	F	0	3	9			+		4	+			Included with above.
37	D	0	0	1	48,840		K		S01				Storage - Container
38	D	0	0	2			+		+				Ψ
39	D	0	0	3			*		₩				V
40	D	0	0	4			+		4				V
41	D	0	0	5			+		+				V
42	D	0	0	6			+		1	1			4
43	D	0	0	7		$\sqcap \dashv$	+		+				*
44	D	0	0	8			+	i –	1	 	 		• •

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292	U	1	9	3			+		Ψ				→
293	υ	1	9	4		-	+		+		**		*
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295	υ	2	0	0			+		+				*
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TV. DESCRIT TION OF DANGEROUS WASTES (COMMERCY)	
E. Use this space to list additional process codes from Section D(1) on page 3.	,
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V. D. CH. Phy. D. A. William C. D. Charles and december (1)	
v. FACILITY DRAWING Refer to attached drawing(s).	
All existing facilities must include in the space provided on page 5 a scale drawing of the	facility (see instructions for more detail).
VI. PHOTOGRAPHS Refer to attached photograph(s).	
All existing facilities must include photographs (aerial or ground-level) that clearly delin future storage, treatment or disposal areas (see instructions for more detail).	seate all existing structures; existing storage, treatment and disposal areas; and sites of
VIL FACILITY GEOGRAPHIC LOCATION This information is provide	led on the attached drawing(s) and photograph(s).
LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)

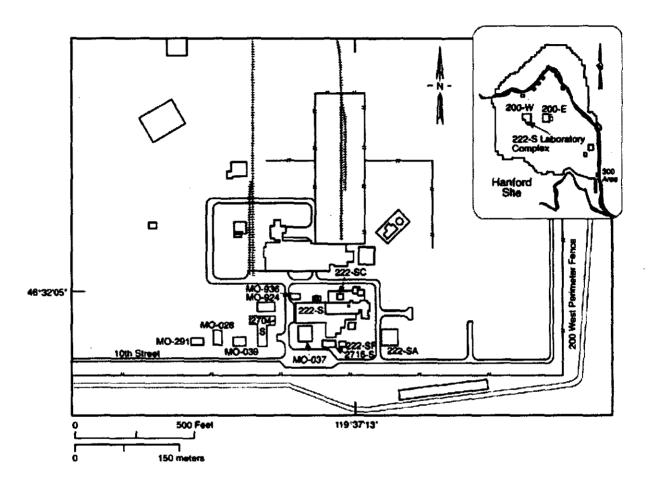
VIIL FACILITY OWNER									
A. If the facility owner is also the facility operator as list below. B. If the facility owner is not the facility operator as liste	ed in Section VII on Form 1, "General Information", place an d in Section VII on Form 1, complete the following items:	"X" in the box to the left and skip to Section IX							
1. Name of Facility's Legal Owner 2. Phone Number (area code & no.)									
3. Street or P.O. Box	4. City or Town	5. St. 6. Zip Code							
		 							
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IX. OWNER CERTIFICATION									
l certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.									
Name (print or type)	Signature	Date Signed							
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	03/08/2001							
X. OPERATOR CERTIFICATION									
I certify under penalty of law that I have personally examined of those individuals immediately responsible for obtaining the significant penalties for submitting false information, including	information, I believe that the submitted information is true, a								
Name (print or type)	Signature	Date Signed							
SEE ATTACHMENT									

X. OPERATOR CERTIFICATION

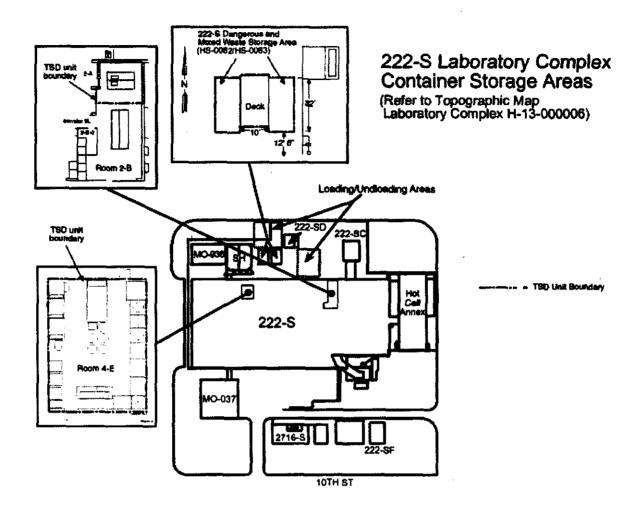
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Keith A. Klein	3/8/01
Owner/Operator	Date
Keith A. Klein, Manager	
U.S. Department of Energy	
Richland Operations Office	
•	
Ron D. Hanson	<u>2/23/01</u>
Co-Operator	Date
Ron D. Hanson	
President and Chief Executive Officer	
Fluor Hanford	

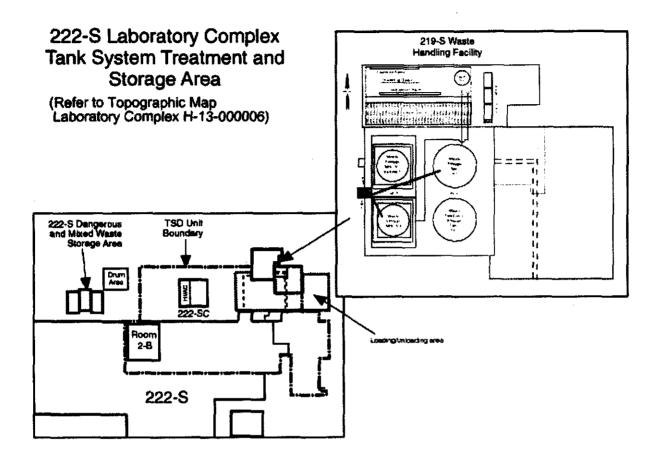
222-S Laboratory Complex and Surrounding Structures Site Plan



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M0102-2.2R1



M0102-2.1

222-S Laboratory Complex 219-S Waste Handling Facility



46°32'05" 119°37'13"

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222-S Laboratory Complex Dangerous and Mixed Waste Storage Area

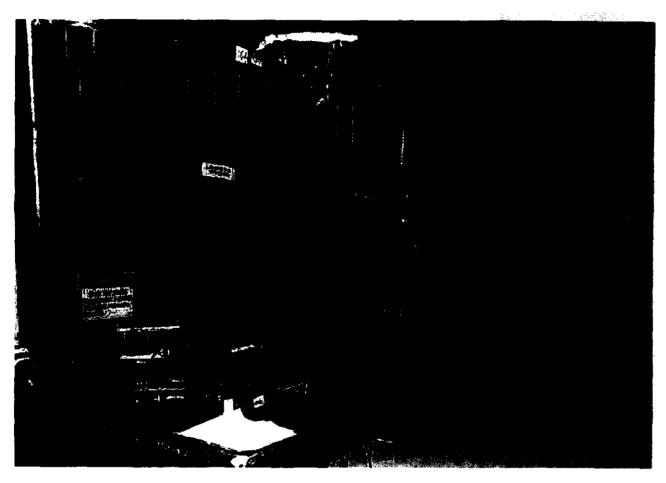


METAL STORAGE STRUCTURES

46°32'05" 119°37'13"

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222-S Laboratory Complex Room 2-B



HOOD FOR TRANSFER OF WASTE TO 219-S WASTE HANDLING FACILITY

46°32'03" 119°37'15"

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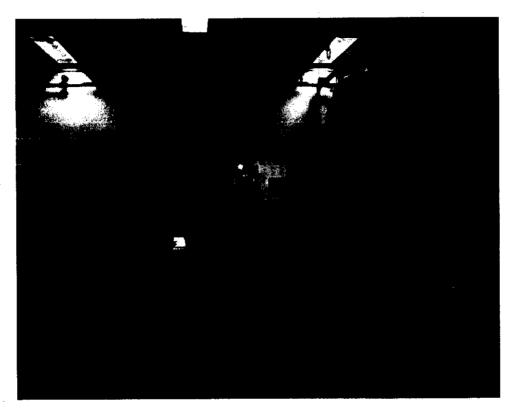
222-S Laboratory Complex Room 4-E



WEST SIDE 46°32'03" 119°37'15"

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222-S Laboratory Complex Room 4-E



EAST SIDE 46°32'03" 119°37'15"

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HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

			Re	vision	Date Submitted	Ecology Approval Date
1.0 INTR	ODUC1	TION				
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3.0 FORM	11 - DA	ANGERO	OUS WASTE PERMIT APPLICATION			
3.1.1	FORM	11 - FDF	I	3		
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4.0 FORM	13 - DA	ANGERO	OUS WASTE PERMIT APPLICATION			
4.1	100 A	REA FA	CILITIES		•	
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			PARTIAL CLOSURE PLAN COMPLETED, 10/01/96			
		4.1.1.3	1706-KE Waste Treatment System	3	09/26/1996	Pending
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	4.1.2	Disposa	ıl Facilities			
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		4.1.2.2	1325-N Liquid Waste Disposal Facility	7	02/25/1997	05/18/99
		4.1.2.3	1324-NA Percolation Pond	3	06/30/1994	05/18/99
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		4.2.1.2	200 West Area Ash Pit Demolition Site	4	11/04/1994	11/28/95

		CLEAN CLOSED, 11/28/95			
	4.2.1.3	218-E-8 Borrow Pit Demolition	4	11/04/1994	11/04/94
		Site			
		CLEAN CLOSED, 11/28/95	_	00/07/1007	10116106
•		242-A Evaporator	7	09/26/1996	-
		Grout Treatment Facility	6	09/30/1999	-
		Grout Treatment Facility	7	12/21/1999	_
		T Plant Complex	8	02/05/2001	
	4.2.1.7	241-Z Treatment and Storage Tanks	6	05/05/2000	07/05/00
	4.2.1.8	B Plant Complex	8	11/22/1999	11/22/99
	4.2.1.9	222-S Laboratory Complex	9	03/08/2001	03/19/2001
	42110	204-AR Waste Unloading Station	5	09/30/1999	10/21/00
		204-AR Waste Unloading Station	6	12/21/1999	
		PUREX Plant	9	08/04/1999	_
		Hanford Waste Vitrification Plant	5	09/26/1996	
		Hanford Waste Vitrification Plant	6	09/30/1999	Denied
		200 Area Effluent Treatment	3	05/22/1998	
		Facility			
	4.2.1.14	Waste Receiving and Processing Facility	1	09/26/1996	03/12/97
	4.2.1.14	Waste Receiving and Processing Facility	3	06/28/1999	Pending
	4.2.1.15	Plutonium Finishing Plant Treatment Unit	1	04/10/2000	06/09/00
	4.2.1.15	Plutonium Finishing Plant Treatment and Storage Unit	2	07/05/2000	Denied
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	4.2.2.2	Double-Shell Tank System	10	12/21/1999	Pending
	4.2.2.3	Hexone Storage and Treatment Facility	3	06/30/1994	Pending
	4.2.2.4	2727-WA SRE Sodium Storage Building CLOSED 02/22/99	1	09/26/1996	02/22/99
	4.2.2.5	PUREX Storage Tunnels	5A	09/26/2000	12/12/00
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	4.2.2.9	207-A South Retention Basin	2	09/26/1996	Pending
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HANFORD FACILITY	Y DANGI	EROUS WASTE PART A PERMIT A	PPLICA	ATION (TOO	Page 3 of 4
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	4.2.2.12	Waste Encapsulation and Storage Facility	1	07/13/2000	08/25/00
	4.2.2.13	IHLW Interim Storage Unit	0	06/28/1999	07/28/99
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	4.2.3.3	2101-M Pond CLEAN CLOSED, 11/28/95	2	11/16/1987	11/28/95
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	4.2.3.6	216-B-63 Trench	5	11/22/1999	10/30/00
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	4.2.3.8	216-U-12 Crib	3 .	06/30/1994	Pending
	4.2.3.9	216-A-36B Crib	1	06/30/1994	Pending
	4.2.3.10	216-A-37-1 Crib	2	06/30/1994	Pending
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	4.3.1.8		0	05/19/1988	12/10/96
	4.3.1.9	Physical and Chemical Treatment Test Facilities CLOSED 05/13/96	1	08/13/1991	05/13/96
	4.3.1.10	Thermal Treatment Test Facilities	0	05/19/1988	05/13/96

1 11/16/1987 Pending

CLOSED 05/13/96

4.3.2 Storage Facilities

4.3.2.1 311 Tanks

HANFORD FA	CILITY	Y DANG	EROUS WASTE PART A PERMIT	APPLIC	ATION (TO	Page 4 of 4
		4.3.2.2	303-K Storage Facility	5	09/26/1996	02/25/98
		4.3.2.3	305-B Storage Facility	1	12/20/1990	09/27/94
		4.3.2.4	332 Storage Facility CLOSED 04/21/97	0	05/19/1988	04/21/97
	4.3.3	Disposa	ıl Facilities			
		4.3.3.1	300 Area Process Trenches	4	05/25/1995	Pending
4.4	400 A	REA FA	CILITIES			
	4.4.1	Treatme	ent Facilities			•
		4.4.1.1	437 Maintenance and Storage Facility	3	09/26/1996	Pending
	4.4.2	Storage	Facilities			
		4.4.2.1	4843 Alkali Metal Storage Facility CLEAN CLOSED, 04/14/97	3	09/26/1996	04/14/97
		4.4.2.2	Sodium Storage Facility and Sodium Reaction Facility	1	09/26/1996	Pending
4.5	600 A	REA FA	CILITIES			
	4.5.1	Treatme	ent Facilities			
		4.5.1.1	Hanford Patrol Academy Demolition Sites CLEAN CLOSED, 11/28/95	4	12/15/1994	11/28/95
	4.5.2	Storage	Facilities			
/		4.5.2.1	616 Nonradioactive Dangerous Waste Storage Facility	7	03/04/1997	02/25/98
		4.5.2.2	600 Area Purgewater Storage and Treatment Facility	3	09/11/1998	Pending
	4.5.3	Disposa	ıl Facilities			
		4.5.3.1	Nonradioactive Dangerous Waste Landfill	4	06/30/1994	Pending
4.6	3000 A	AREA FA	ACILITIES			
	4.6.1	Treatme	ent Facilities			
		4.6.1.1	Simulated High-Level Waste Slurry Treatment /Storage CLEAN CLOSED, 09/06/95	2	08/12/1994	09/06/95

Last Update: May 18.2001 10:01AM

DISCLAIMER

This information has been formatted to be Internet viewable and is a facsimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

Class 1 Modification: 09/26/2000 Quarter Ending: 09/30/2000

DOE/RL-88-21 PUREX Storage Tunnels Rev. 5A, 9/26/00

						I. E	PA/State I.D. No.
FORM 3	DAN	GEROUS	WASTE PERMI	T APPLICA	TION	WA7	8 9 0 0 0 8 9 6 7
FOR OFFICIAL	LISE ONLY						
Application	Date Received			<u></u>			
Approved	(month/day/year)			Com	ments		
				Approve	d 12/12/00		
II. FIRST OR RI	EVISED APPLICATION	ON					
Place an "X" in the application. If this I.D. Number in Se	is your first application	or B below (mari n and you aiready	k one box only) to indicate why know your facility's EPA/ST	ether this is the first a ATE I.D. Number, o	application you are submi r if this is a revised applic	tting for your f	acility or a revised ur facility's EPA/STATE
l 🗖 î. Ex	ion (place an "X" below isting Facility (See instable).	v and provide the tructions for defi	e appropriate date) nition of "existing" facility. C	omplete	2. New Facility (Con	nplete item bel	ow)
MO D	AY YR 22 1943	For existing	ng facilities, provide the date (operation began or the date o C (Use the boxes	onstruction ommenced	MO DAY YR		v facilities, provide the date sy/yr) operation began or is expected to begin.
	cation (place an "X" be		te Section I above)	as A Final Permit			
		<u></u>					
	S - CODES AND DES		IES codes below that best describ				18
2. Unit Of M	easure that are listed bel	ow should be us	umn B(1), enter the code from ed.		APPROPRIATE	UNITS OF M	EASURE FOR
, i	F	PROCESS		PROCESS CODE	PROCESS	DESIGN CA	PACITY
STORAGE:	errel, drum, etc.)			S01	Gallons or liters		
Tank				S02	Gallons or liters		
Waste pile				S03	Cubic yards or cubic me	ters	
Surface imp				S04	Gallons or liters		
Containment DISPOSAL:	t building storage*			S06	Cubic yards or cubic me	mas.	
Injection we	41			D80	Gallons or liters		
Landfill				D81	Acre-feet (the volume the one foot) or hectare-meter		one acre to a depth of
Land applica	ation			D82	Acres or hectures		
Ocean dispo	sal			D83	Gallons per day or liters	per day	
Surface imp	oundment			D84	Gallons or liters		
Tank	-			T01	Gallons per day or liters		
Surface imp Incinerator	oundment			T02 T03	Gallons per day or liters Tons per hour or metric	per day	gallons per hour or
occurring in	for physical, chemical, t tanks, surface impound provided: Section III-C	lments or inciner	tical treatment processes not rators. Describe the processes	T04	liters per hour Gallons per day or liters	per day	
Units of Meas	ure Unit of Me	asure Code	Units of Measure	Unit of Measure (Init of Measure Code
Gallons	***************************************		Liters Per Day				<u>A</u>
			Tons Per Hour		D Hectare-Mete		F
	••••••		Metric Tons Per Hour Gallons Per Hour				Q
Gallons Per Do	y		Liters Per Hour		U		······································
ECY 030-31 Form					··· -		

^{*}Add per request of Washington State Department of Ecology (01/2001)

IIL PROCESSES - CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can

hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

	l			B. Process Design Capacity							
Line No.		A. Process Code (from list above) 1. Amount (specify)		1. Amount (specify)			Unit of Measure (enter code)		For Official Use Only		
X-1	S	0	2	600		G					
X-2	T	0	3	20		E					
1	х	9	9	24,007		С					
rocess C	ode X99	is being	used to d	esignate the PUREX Storage tunnels as a "Miscellaneous Unit" per Washington Adr	ninistratív	e Code 17:	3-303-6	80.			
2				,							
3					Ţ					Ţ	
4											
5											
6											
7					1.						
8										7	
9											
10											

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

<u>X99</u>

The PUREX Storage Tunnels, a miscellaneous unit (X99), are used for storage of mixed waste subject to the requirements of WAC 173-303-680. The two tunnels store waste from the PUREX Plant and other onsite sources. Since being placed into service, mixed waste has been stored in the tunnels on railcars. Not all material stored in the tunnels contains mixed waste.

The construction of Tunnel Number 1 was completed in 1956. The tunnel is approximately 5.8 meters (19 feet) wide by 6.7 meters (22 feet) high by 109 meters (358 feet) long and provides storage space for eight railcars. Between June 1960 and January 1965, all eight railcar positions were filled and the tunnel subsequently was scaled. The combined volume of the equipment stored on the eight railcars presently in Tunnel Number 1 is approximately 596 cubic meters (780 cubic yards). The maximum process design capacity for storage in Tunnel Number 1 is approximately 4,129 cubic meters (5,400 cubic yards).

The construction of Tunnel Number 2 was completed in 1964. Tunnel Number 2 is approximately 5.8 meters (19 feet) wide by 6.7 meters (22 feet) high by 514 meters (1,686 feet) long and provides storage space for 40 railcars. The first railcar was placed in Tunnel Number 2 in December 1967 and as of August 2000, 28 railcars have been placed in the tunnel. The combined volume of the equipment stored on the 28 railcars presently in Tunnel Number 2 is approximately 2,204 cubic meters (2,883 cubic yards). The maximum process design capacity for storage in Tunnel number 2 is approximately 19,878 cubic meters (26,000 cubic yards).

IV. DESCRIPTION OF DANGEROUS WASTES

A. Dangerous Waste Number - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.

B. Retimated Annual Quantity - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant

C. Unit of Measure - For each quantity entered in column B erner the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE

CODE

METRIC UNIT OF MEASURE

CODE

Pounds Tons P

Kilograms
Metric Tons

M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

. Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the
 waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for Completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line	ł	A, Daz	gerous	;	B. Estimated Annual	C. Unit of	C. Unit of D. Processes		
No.			code)		Quantity of Waste			1. Pr3cess Codes (enter)	2. Process Description (if a code is not entered in D(1))
X-1	K	0	5	4	900	P	T03	D80	
X-2	D	0	0	2	400	P	T03	D80	
X-3	D	0	0	1	100	P	T03	D80	
X-4	D	0	0	2			T03	D80	included with above

Photocopy this page before completing if you have more than 26 wastes to list.

l.D	N	ımt	ег (ent	er f	rom	ра	ge	I)		
W	Α	7	86	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

Line	1	A. Dan	gerous		M. Floaters de A. Arress al	Estimated Annual Quantity of Waste (enter code) C. Unit of Measure 1. Process Codes (enter)		 D. Processes
No.			e No.		Quantity of Waste			 2. Process Description (if a code is not entered in D(1),
1	D	0	0	5	454*	K	X99	Storage-Miscellaneous
2	D	0	0	6	454*	K	X99	Storage-Miscellaneous
3	w	T	0	2		₩	₩	\
4	D	0	0	7	454*	K	X99	Storage-Miscellaneous
5	D	0	0	8	8,000*	K	X99	Storage-Miscellaneous
6	D	0	0	9	45*	K	X99	Storage-Miscellaneous
7	D	0	1	0	454*	K	X99	Storage-Miscellaneous
8	D	0	ı	1	680*	K	X99	Storage-Miscellaneous
9	D	0	0	l		↓	₩.	₩
10	w	T	0	2	454	K	X99	Storage-Miscellaneous

The estimated annual quantity of waste listed above represents the maximum quantity of waste placed in either tunnel in a given year.

	DESCRIPTION	OF BA	NORDOLIC	THE OTTER	/
IV.	DESCRIPTION	OF DA	NULKUUS	WASIES	(CORDRHES)

E. Use this space to list additional process codes from Section D(1) on page 3.

The waste stored in the tunnels could include barium (D005), cadmium (D006), chromium (D007), lead (D008), mercury (D009), selenium (D010), silver (D011), and light mineral oil (WT02, state-only, toxic, dangerous waste) contained in oil absorption material. The silver is predominately in the form of salts and is considered ignitible (D001) because of the presence of silver nitrate (AgNO₃

v. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VL PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VIL FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE (d	egrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)

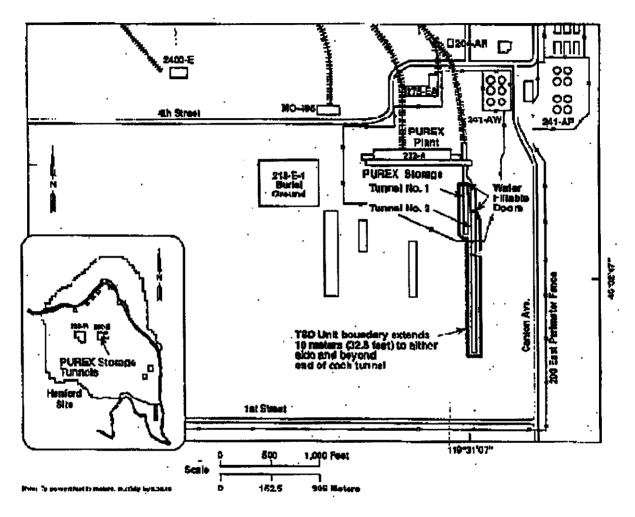
VIIL FACILITY OWNER			
A. If the facility owner is also the facility operat below.	or as listed in Section VII on Form 1, "General Infor	mation", place an "X" in the box to the	left and skip to Section IX
B. If the facility owner is not the facility operator	or as listed in Section VII on Form 1, complete the fo	llowing items:	
1. N	ame of Facility's Legal Owner	2. Pho	ne Number (area code & no.)
			, , , , , , , , , , , , , , , , , , ,
<u> </u>		<u> </u>	<u> </u>
3. Street or P.O. Box	4. City or Town	n 5. St.	6. Zip Code
		, , , , , , , , , , , , , , , , , , , 	
			<u></u>
IX. OWNER CERTIFICATION	<u> </u>		
I certify under penalty of law that I have personally ex of those individuals immediately responsible for obtai significant penalties for submitting false information,	ning the information, I believe that the submitted info		
Name (print or type)	Signature	Date Signed	
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner Revision 5 signed 09/26/96	09/26/2000	
X. OPERATOR CERTIFICATION			
I certify under penalty of law that I have personally ex of those individuals immediately responsible for obtai significant penalties for submitting false information,	ning the information, I believe that the submitted info		
Name (print or type)	Signature	Date Signed	
SEE ATTACHMENT			
<u> </u>			

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

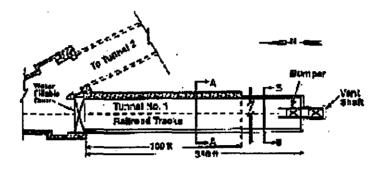
John D. Wagoner (Revision 5 signed 09/26/96)	<u>9/26/00</u>	
Owner/Operator	Date	
John D. Wagoner, Manager		
U.S. Department of Energy		
Richland Operations Office		
H. J. Hatch (Revision 5 signed 09/13/96)	9/13/00	
Co-Operator	Date	
H. J. Hatch,		
President and Chief Executive Officer		
Fluor Daniel Hanford, Inc.		

PUREX Storage Tunnels Site Plan

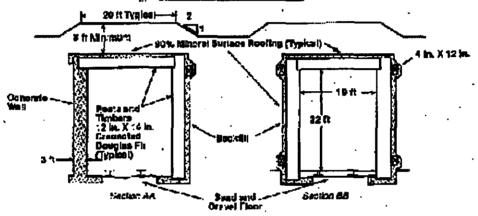


H9411012.1

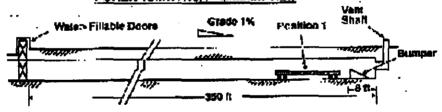
PUREX Tunnel No. 1 - Details



FUREX Tunnel No.1 - Plan Y ew



PUREX Tunnel No. 1 - Section Vipy

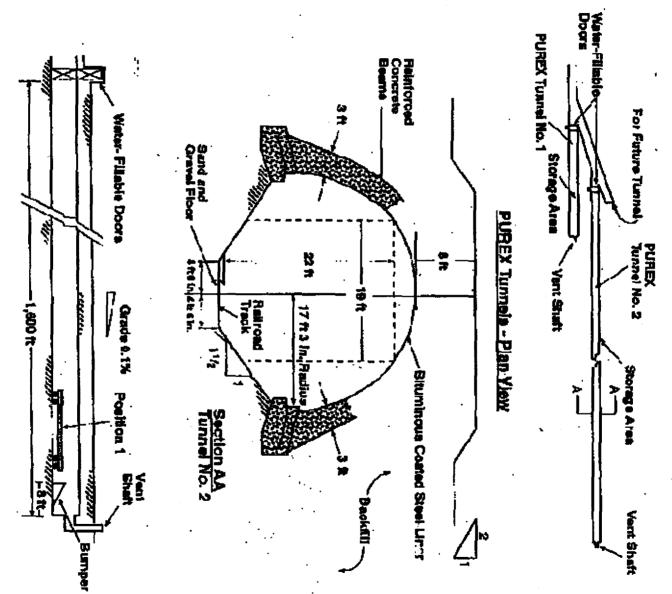


PUREX Tunnel No.1 - Elovation View

For conversion to melete, anultiply feet by 0.5043. For conversion to continuous, multiply inches by 2.54.

H96030106.2

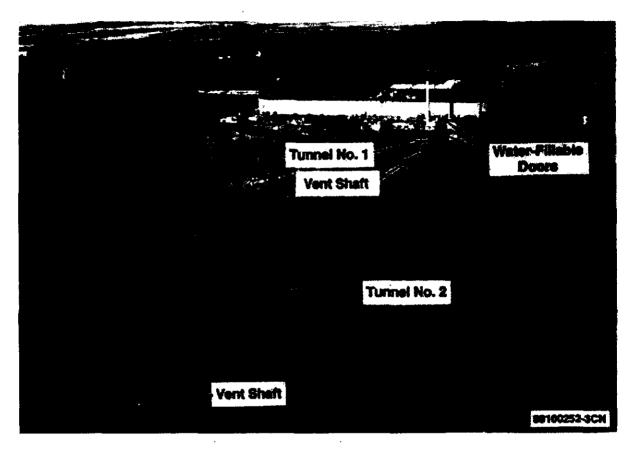
PUREX Tunnel No. 2 - Details



PUREX Tunnel No. 2 - Elevation View

For conversion to meters, multiply feet by 0.3048.
For conversion to contimeters, multiply inches by 2.54.

PUREX STORAGE TUNNELS



46°32'47" 119°31'07"

89100252-3CN (PHOTO TAKEN 1989) Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e. 12 character/inch).

DOE/RL-88-21 216-8-63 Trench Rev. 5, 11/22/99

			٠, , , , , , ,							
	FORM 3	DAN	IGE	ROUS W	ASTE PERMIT	APPLIC	ATION			TE I.D. NUMBER B 9 0 0 0 8 9 6
F	OR OFFICIA	L USE ONLY	<u>-</u>							
	APPROVED	DATE RECEI'		-		СОММ	ENTS			
					A	pproved	1 10/30/0	0		
11.	FIRST OR F	REVISED APPLIC	ATION							
re	vised applica	the appropriate lition. If this is you STATE I.D. Numb	r first a	pplication and y	ark one box only) to indicate wo ou already know your facility's	whether this is to EPA/STATE I	he first applicat .D. Number, or	ion you a if this is a	re submittir i revised ap	ng for your facility or a oplication, enter your
A	. FIRST APP	LICATION (place EXISTING FACILI	an "X" ITY	(See instructi	ide the appropriate date) ions for definition of "existing" plete Item below.)	l	2. NEW FA		-	·
	MO. 03	DAY YEAR 22 1943		DATE (mo., o OR THE DAT COMMENCE	ING FACILITIES, PROVIDE T day, & yr.) OPERATION BEG, TE CONSTRUCTION ED (use the boxes to the left) Instruction of the Hanford Faci	an j	MO. DAY	TEAR	THE DATE	FACILITIES, PROVIDI , (mo., day, & yr.) IN BEGAN OR IS) TO BEGIN
В.	REVISED A	PPLICATION (place)	ece en INTERI	"X" below and c M STATUS PE	omplete Section (above) RMIT 2. I	ACILITY HAS	A FINAL PERI	MIT		
HI	. PROCESS	- CODES AND C	APACI	TIES				·		
	for entering then described described for the de	g codes. If more li the the process (i t DESIGN CAPAC IT - Enter the am F MEASURE - FC	ines are includin CITY - I ount. or each	e needed, enter g its design cap For each code e amount entered	process codes below that bes the code(s) in the space provi acity) in the space provided of intered in column A enter the of d in column B(1), enter the column Bill, enter the column	ided. If a proce in the (Section i capacity of the de from the list	ss will be used III-C). process.	that is no	t included i	n the list of codes belo
	PF	ROCESS		APPROPRIAT MEASURE FO DESIGN C	R PROCESS	PR	OCESS		MEASURI	RIATE UNITS OF E FOR PROCESS BN CAPACITY
	Storage:			·		Treatment:				
	CONTAINE	₹ (barrei, drum,	S01	GALLONS OR	LITERS	TANK		T01		PER DAY OR
	etc.) TANK		S02	GALLONS OR		SURFACE IN	APOUNDMENT	T02		S PER DAY OR
	WASTE PIL	E	S03	CUBIC YARDS METERS	S OR CUBIC	INCINERATO	OR .	T03	LITERS P	ER DAY R HOUR OR
	SURFACE I	MPOUNDMENT	S04		LITERS		•••		METRIC 1 HOUR; GA HOUR OF	TONS PER ALLONS PER R LITERS PER
	INJECTION LANDFILL	WELL		GALLONS OR ACRE-FEET (to that would cow to a depth of or HECTARE-ME	the volume er one acre ne foot) OR	chemical, the	for physical, rmal or biologic cesses not anks, surface	T04 cal	HOUR GALLONS LITERS P	S PER DAY OR ER DAY
	CEAN DIS			ACRES OR HE GALLONS PEI LITERS PER D	ECTARES R DAY OR	impoundmen Describe the	ts or incinerato processes in the ed: Section III-	10		
	SURFACE I	MPOUNDMENT	D84	GALLONS OR		THE STATE OF THE S	***************************************	•		
			JNIT O	F		UNIT OF				UNIT OF
	UNIT OF M	M	CODE	RE	UNIT OF MEASURE	MEASURE CODE	UNI	T OF ME	ASURE	MEASURE CODE
	GALLONS		G		LITERS PER DAY	v		RE-FEET		A
	LITERS CUBIC YAR	RDS	L Y		TONS PER HOUR METRIC TONS PER HOUR	D W	HEC ACF	CTARE-M RES	ETER	F B
	CUBIC MET		Ċ		GALLONS PER HOUR LITERS PER HOUR	Ë		TARES		ā

EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

	A. PROCESS	B. PROCESS DESIGN CAPACIT			0141 1105	
LINE NUMBER	CODE (from list above)	1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY		
X-1	S02	600	G			
X-2	T03	20	Ε			
1	T02	757,080	V			
2	D84	757,080	L			
3						
4						
5						
6		The same of the sa				
7						
8						
9						
10						

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T02, D84

The 216-B-63 Trench began waste management operation in March of 1970. The 216-B-63 Trench received corrosive dangerous waste from the regeneration of demineralizer columns in B Plant. Treatment occurred by the successive addition to the trench of acidic and caustic waste, which served to neutralize the waste while in the trench. Approximately 970,000 liters per day of total flow reached the trench. The corrosive discharges constitued a major part of this flow. Dangerous waste flows to the trench ceased in 1985 and all liquid flows to the trench ceased in 1992. The trench was covered with dirt in November 1994. The hielet pipe was filled with cement in December 1994. The trench can no longer accept dangerous waste. The current process capacity of the trench is zero based on the present configuration. The process design capacity listed in Section III.B reflects a historical value of the average total volume of liquid discharged rather than the current physical capacity of the unit.

IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

POUNDS P KILOGRAMS K
TONS T METRIC UNIT OF MEASURE CODE

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual
 quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	A. DANGEROUS		C. UNIT OF				D. PROCESSES
NO E.	WASTE NO.	B. ESTIMATED ANNUAL QUANTITY OF WASTE	MEA- SURE 1. PROCESS CODES (enter code)		DDES	PROCESS DESCRIPTION (if a code is not entered in D(1))	
X-1	K054	900	P	T03	D80		
X-2	D002	400	P	T03	D80		
X-3	D001	100	P	T03	D80		
X-4	D002			T03	D80		included with above
1	D002	354,000,000	K	T02	D84		Surface Impoundment Neutralization/Percolation
2		······································					
3			,				
4							
5							
6							
7							
8							
9							
10							

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

LONGITUDE (degrees, minutes, & seconds)

LATITUDE (degrees, minutes, & seconds)

	ch received discharges of corrosive dangerous waste (D002) from B Plant. These discharges consisted of acidic and s from the regeneration of demineralizer columns in B Plant. Approximately 354,000,000 kilos of waste was managed in nual basis.
V. FACILITY DRAWING	Refer to attached drawing(s).
All existing facilities must inc	lude in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).
VI. PHOTOGRAPHS Re	fer to attached photograph(s).
	dude photographs (arial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; reatment or disposal areas (see instructions for more detail).
VII. FACILITY GEOGRAPH	C LOCATION This information is provided on the attached drawing(s) and photograph(s).

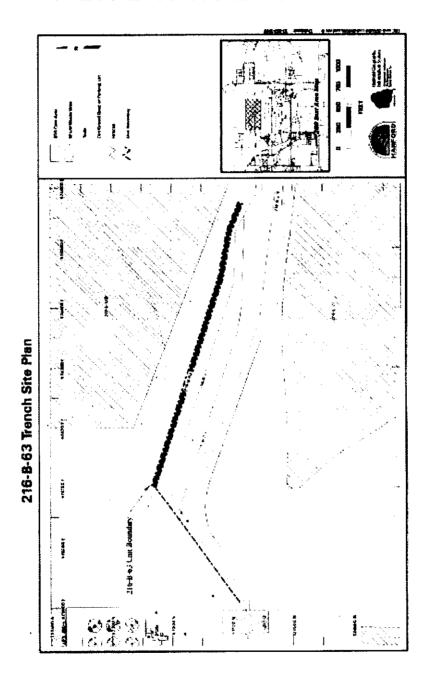
VIII. FACILITY OWNER			
A. If the facility owner is also the facility operator as Section IX below. B. If the facility owner is not the facility operator as is			in the box to the left and skip to
1. NAME OF FAC	CILITY'S LEGAL OWNER		2. PHONE NO. (area code & no.)
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
IX. OWNER CERTIFICATION			
I certify under penalty of law that I have personally exami on my inquiry of those individuals immediately responsible complete. I am aware that there are significant penalties	e for obtaining the information, I believe that the	submitted informat	tion is true, accurate, and
NAME (print or type)	SIGNATURE	DATE SI	GNED
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	11/22/19	99
X. OPERATOR CERTIFICATION	A. C.	,	
I certify under penalty of law that I have personally exami- on my inquiry of those individuals immediately responsible complete. I am aware that there are significant penalties	e for obtaining the information, I believe that the	submitted informal	tion is true, accurate, and
NAME (print or type)	SIGNATURE	DATE SI	GNED
SEE ATTACHMENT	·		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Keith A. Klein	11/22/99	
Owner/Operator	Date	
Keith A. Klein, Manager		
U.S. Department of Energy		
Richland Operations Office		
	•	
Michael C. Hughes	9/29/99	
Co-Operator	Date	
S. D. Leidle, President		
Bechtel Hanford, Inc.		

216-B-63 Trench Site Plan



H9502037.2

216-B-63 TRENCH



46°33'46" 119°31'59"

95020800-6CN (PHOTO TAKEN 1995)

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

			Re	vision	Date Submitted	Ecology Approval Date
1.0 INTR	ODUCI	ION				
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3.1.2	FORM	1 - PNL	•	1		
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HANFORD FACI	LITY DANG	EROUS WASTE PART A PERMIT	APPLICA	ATION (TO	C) Page 3 of 4
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HANFORD FA	CILITY	Z DANG	EROUS WASTE PART A PERMIT A	PPLIC	ATION (TOC	Page 4 of 4
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4.6.1 Treatment Facilities

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08/12/1994 09/06/95

2

Last Update: May 18 2001 10:01AM

DISCLAIMER

This information has been formatted to be Internet viewable and is a facsimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

DOE/RL-88-21

Class 1 Modification: 06/29/2000 Quarter Ending: 06/30/2000

325 Hazardous Waste Treatment Units Rev. 4A, 6/29/00

Revised Application (place an "X" below and complete Section I above) Like the boxes to the left. Container (barrel, drum, etc.) Tank Waste pile Surface impoundment Containment building storage* Signature (barrel, drum, etc.) Sol Gallons or liters Surface impoundment Landfull Landf	`						I. EPA/State I.D. No.
Date Received Application Date Received Approved Date Received (month/dary/year)	FORM 3	DANG	EROUS V	WASTE PERMI	T APPLICA	TION	
Approved Date Received (month/de/year) Comments		DAIR	:1000				WA7890008967
Approved Date Received (month/de/year) Comments	FOR OFFICIA	L USE ONLY					
Light Comments Comments							
I. FIRST OR REVISED APPLICATION Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Socion I above. A First Application (place to "X" below and provide the appropriate date)					Com	ments	
Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility is PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers, or if this is a revised application, enter your facility of PA/STATE I.D. Numbers of the facility of PA/STATE I					Approve	d 08/18/00	
application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number, or if this is a revised specification, enter your facility's EPA/STATE I.D. Number, or if this is a revised specification, enter your facility's EPA/STATE I.D. Number, or if this is a revised specification, enter your facility's EPA/STATE I.D. Number, or if this is a revised specification, enter your facility is established to the process of the left of the process of the process of the process of the left of the open control of the specific of the process of the left of the process of the p	II. FIRST OR	REVISED APPLICATIO	N				
1. Existing Facility (See instructions for definition of "existing" facility. Complete 2. New Facility (Complete item below)	application. If the	nis is your first application	r B below (mark o and you already k	one box only) to indicate who the control of the co	hether this is the first of ATE I.D. Number, o	application you are submi r if this is a revised applic	itting for your facility or a revised cation; enter your facility's EPA/STATE
MO DAY YR Operation began or the date construction commenced. (Use the boxes to the left) MO DAY YR For new facilities, provide the date (mo/day/r) operation began or the date construction commenced. (Use the boxes to the left) Part	լ այներ	Existing Facility (See instr	and provide the a uctions for definit	ppropriate date) tion of "existing" facility. C	'omplete	2. New Facility (Con	mplete item below)
B. Revised Application (place an "X" below and complete Section I above) Di Pacility Has A a Interim Status Permit III. PROCESSE - CODES AND DESIGN CAPACITIES A. Process Code - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the codes) in the space provided on the (Section III-C). B. Revised Application (place an "X" below and complete Section I above) Di Pacility Has A a Interim Status Permit III. PROCESSE - CODES AND DESIGN CAPACITIES A. Process Code - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the codes) in the space provided on the (Section III-C). B. Process Design Capacity - For each code entered in column A enter the capacity of the process. 1. Amount - Enter the amount. 2. Unit of Measure - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used. PROCESS PROCESS CODE PROCESS CODE PROCESS DESIGN CAPACITY STORAGE: Container (barrel, drum, etc.) Tank Waste pile Sufface impoundment Sufface impoundment Landfill D80 Gallons or liters Gallons or liters D80 Gallons or liters D80 Gallons or liters per day Gallons or liters per day Gallons per day or liters per day Gallons per day or liters per day Incident in per hour or metric tons per hour or liters per day Incident of the per hour in the space provided. Section III-C.) Units of Measure	I					MO DAY YR	For new facilities, provide the date
R. Revised Application (place an "X" below and complete Section I above) 2. Facility Has A Final Permit 2. Facility Has A Final Permit 3. Facility Has not included in the list of codes below, then describe the process (including describes below, then describe the process (including describes below, then describe has not included in the list of facility Has not included in the list of facility Has Permit 3. Facility Has A Final Permit 3. Facility Has A Final Permit 3. Facility			0	·	commenced.		(mo/day/yr) operation began or is expected to begin.
III. PROCESSES - CODES AND DESIGN CAPACITIES A. Process Code - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including design capacity) in the space provided on the (Section III-C). B. Process Design Capacity - For each code entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used. **PROCESS** *	B. Revised App	plication (place an "X" bel	ow and complete	Section I above)			
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more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including design capacity) in the space provided on the (Section III-C). B. Process Design Capacity - For each code entered in column A enter the capacity of the process. 1. Amount - Enter the amount. 2. Unit Of Measure - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used. PROCESS PROCESS CODE APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY STORAGE: Container (barrel, drum, etc.) Tank Waste pile Surface impoundment Containment building storage* DISPOSAL: Injection well Landfull Land application Ocean disposal Ocean disposal Surface impoundment Description of the process of the processes on course impoundment or incinerators. Describe the processes not coccurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided: Section IIII-C.) Units of Measure Unit of Measure Code Units of Measure Unit of Measure Code Cubic Yards V Acre-Feet A							
STORAGE: Container (barrel, drum, etc.) Tank Waste pile Surface impoundment Land application Ocean disposal Surface impoundment TREATMENT: Tank Surface impoundment Tother (Use for physical, chemical, thermal or biological treatment processes in the space provided: Section III-C.) PROCESS CODE PROCESS DESIGN CAPACITY Surface impound (barrel, drum, etc.) Surface impoundment Surface i	D. Process De	- Enter the amount	OGC CHICAGO III COI	dilling of circle die capacity o	i alo process.		
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^{*}Add per request of Washington State Department of Ecology (01/2001)

III. PROCESSES - CODES AND DESIGN CAPACITIES (continued)

Example for Completing Section III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can

hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

				B. Process Design Capacity	·	
Line No.	A. F	rocess C m list abo	ode ove)	1. Amount (specify)	2. Unit of Measure (enter code)	For Official Use Only
X-1	s	0	2	600	G	
X-2	Т	0	3	20	E	
1	s	0	1	10,000	L	
2	Т	0	4	1,514	v	
3	s	0	2	12,574	L	
4	т	0	1	12,574	v	
5						
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7						
8						
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10						

C. Space for additional process codes or for describing other process (code "TO4"). For each process entered here include design capacity.

S01, T04, S02, T01

The 325 Harardous Waste Treatment Units (325 HWTUs) consist of the Shielded Analytical Laboratory (SAL) which includes Rooms 32, 200, 201, 202, and 203; the Hazardous Waste Treatment Unit (HWTU) encompassing Rooms 520 and 528 of the 325 Building, and the 325 Radioactive Liquid Waste Tank (RLWT)located in the southeast corner of the basement of the 325 Building. The 325 HWTUs began waste management operations in 1991 (SAL) and 1995 (HWTU). Up to 10,000 liters of dangerous and/or mixed waste may be stored in containers in the 325 HWTUs (S01). A maximum of 1514 liters of dangerous and/or mixed waste may be treated per day in containers in the 325 HWTUs (T04).

Liquid dangerous and/or mixed waste is transferred to tank storage via gravity drain lines located in the SAL (which drain into tank TK-1) and in Room 528 [which drain directly to the radioactive liquid waste system (RLWS)]. Tank TK-1 is drained via a jet system into the RLWS then to the RLWT and is used to collect liquid dangerous and/or mixed waste. The RLWT transfers collected dangerous and/or mixed waste to a loadout station, where mobile containers are loaded to transfer the liquid dangerous and/or mixed waste to the Double-Shell Tank System. A maximum of 12,574 liters of dangerous and/or mixed waste may be stored in tanks in the 325 HWTUs (S02). A maximum of 12,574 liters of dangerous and/or mixed waste may be treated in tanks per day in the 325 HWTUs (T01).

Dangerous and/or mixed waste treatments are generally conducted as small bench-scale operations except for in-tank treatments. Treatment processes utilized at the 325 HWTUs may include the following:

TH	Molten salt destructor	T35	Centrifugation	T55	Electrodialysis
T12		T36	Clarification	T56	Electrolysis
		137	Congulation	T57	Evaporation
T13	Wet air oxidation			T58	High gradient magnetic separation
T14	Calcination	T38	Decanting		Leaching
T15	Microwave discharge	T39	Encapsulation	T59	
TIS	Other thermal treatment	T40	Filtration	T60	Liquid ion exchange
T21	Chemical fixation	T41	Flocculation	T61	Liquid-liquid extraction
T22	Chemical oxidation	T42	Flotation	T62	Reverse osmosis
T23	Chemical precipitation	T43	Foaming	T63	Solvent recovery
T24	Chemical reduction	T44	Sedimentation	T64	Stripping
T25	Chlorination	T45	Thickening	T65	Sand filter
T26	Chlorinolysis	T46	Ultrafiltration	T66	Other removal technology
	Cynanide destruction	T47	Other separation technology	T67	Activated sludge
T28	Degradation	T48	Absorption-molecular sieve	T69	Aerobic tank
T29	Detoxification	T49	Activated carbon	T70	Anaerobic lagoon or tank
T30	Ion exchange	T50	Blending	T71	Composting
T31	Neutralization	T51		T74	Thickening filter
T32	Ozonation		Crystallization	T75	Trickling filter
		T53	Dialysis	T77	Other biological treatment
T33	Photolysis			• • • • • • • • • • • • • • • • • • • •	Out. 0101081001 110101111111
T34	Other chemical treatment	T54	Distillation		

IV. DESCRIPTION OF DANGEROUS WASTES

- A. Dangerous Waste Number Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.
- Estimated Annual Quantity For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. Unit of Measure For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are: CODE

ENGLISH UNIT OF MEASURE

METRIC UNIT OF MEASURE

CODE

Pounds

Kilograms Metric Tons

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant. Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

Example for Completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line		A. Dan	Zerou		B 5 4 4 4 4	C. U	it of			D.	. Processes
No.		Wast	e No. code)		B. Estimated Annual Quantity of Waste	Ment (enter				es Codes ster)	2. Process Description (if a code is not entered in D(1))
X-I	K	0	5	4	900	P		T03	D80		
X-2	D	0	0	2	400	P	•	T03	D80		
X-3	D	0	0	1	100	P		T03	D80		
X-4	D	0	0	2				T03	D80		included with above

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Photocopy this page before completing if you have more than 26 wastes to list.

I.D. Number (enter from page 1)

W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

) [] 	DIV OF DAINGE	NGEA	COO WASTES (COMMUNES)			7				Processes
Z 5		(enter	Waste No. (enter code)		B. Estimated Annual Quantity of Waste	Measure (enter code)	96 E		1. Process Codes	us Codes		2. Process Description (If a code is not entered in D(I))
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284	U	1	0	9			*			+			Ψ
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289	υ	1	1	4			4		₩.	+			Ψ
290	U	1	1	5			+		4	+			+
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292	U	1	1	7			+		+	+			+
293	υ	1	_	8			+		¥	+			Ψ
294	U	1	1	9			+		¥	+			Ψ
295	Ü	1	2	0			+		4	+			4
296	U	1	2	1			+		→	+			4
297	U		2	2			+		-	+			4
298	Ü	1	2	3		-	+		+	+			4
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302	U		2	7			*		—	-			<u> </u>
303	U	1	2	8			*		-	+			*
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v	DESCRIPTION	OF DANGEROUS	WASTES	/continued
٧.	DESCRIPTION	UF DANGEKUUS	WASILS	(conunues)

E. Use this space to list additional process codes from Section D(1) on page 3.

Routine dangerous and/or mixed waste treatment that will be conducted in the 325 HWTUs will include pH adjustment, ion exchange, carbon absorption, oxidation, reduction, waste concentration by evaporation, precipitation, filtration, solvent extraction, solids washing, phase separation, catalytic destruction, and solidification/stabilization. These waste treatments will be conducted on small quantities of diverse radioactive, dangerous and/or mixed wastes generated from ongoing research and development and analytical chemistry activities. Waste to be handled in the 325 HWTUs will include listed waste, waste from non-specific sources, characteristic waste, and state-only criteria waste. Multi-source leachate (F039) is included as a waste derived from non-specific source waste F001 through F005.

V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VL PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (oerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees	, minutes, & seconds)
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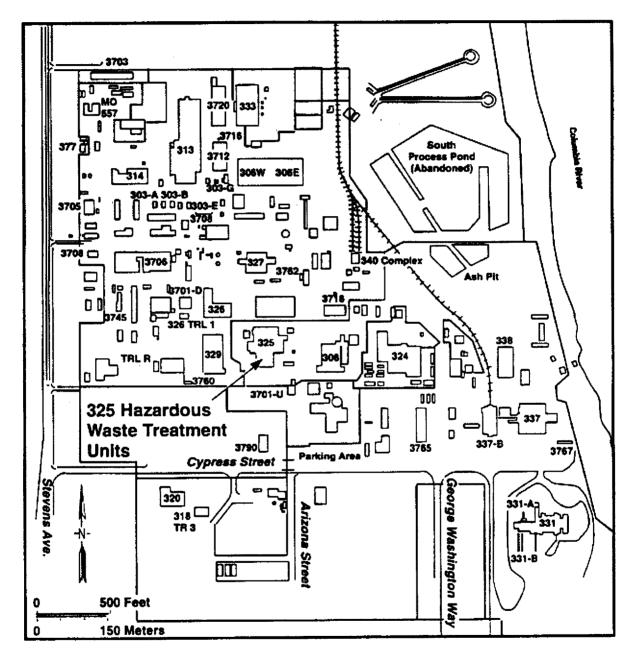
VIII. FACILITY OWNER							
below.	sted in Section VII on Form 1, "General Information", place an	"X" in the box	to the left and skip to Section IX				
	B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:						
1. Name of	Name of Facility's Legal Owner		2. Phone Number (area code & no.)				
3. Street or P.O. Box	4. City or Town	5.	St. 6. Zip Code				
TV OVENER CERTIFICATION							
IX. OWNER CERTIFICATION							
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.							
Name (print or type)	Signature	Date Signed					
•							
Lloyd L. Piper, Acting Manager	LL Piper	06/29/2000					
U.S. Department of Energy	Revision 4 signed 06/30/97						
Richland Operations Office							
X. OPERATOR CERTIFICATION							
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information. I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.							
Name (print or type)	Signature	Date Signed					
SEE ATTACHMENT		14.					
		<u> </u>	<u> </u>				

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

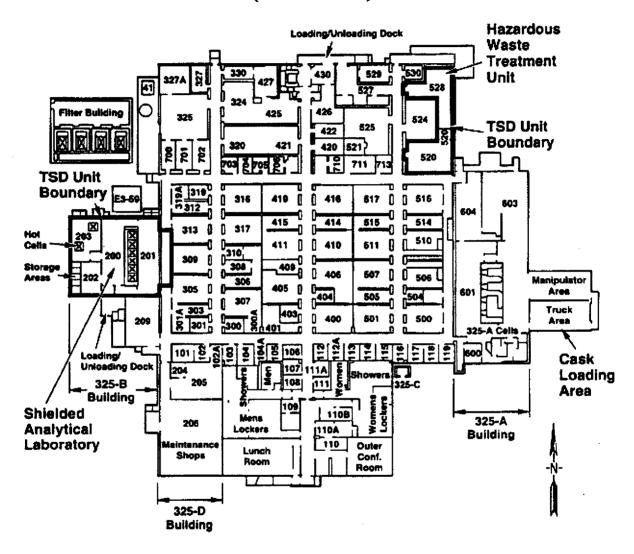
Lloyd L Piper (Revision 4 signed 06/30/97)	6/29/00	
Owner/Operator	Date	
Lloyd L Piper, Acting Manager		
U.S. Department of Energy		
Richland Operations Office		
WINE T N. P. (D. 11. Asianal OCIDCIOT)	6/23/00	
William J. Madia (Revision 4 signed 06/26/97)		
Co-Operator	Date	
William J. Madia, Director		
Pacific Northwest National Laboratory		

Location of the 325 Hazardous Waste Treatment Units in the 300 Area.



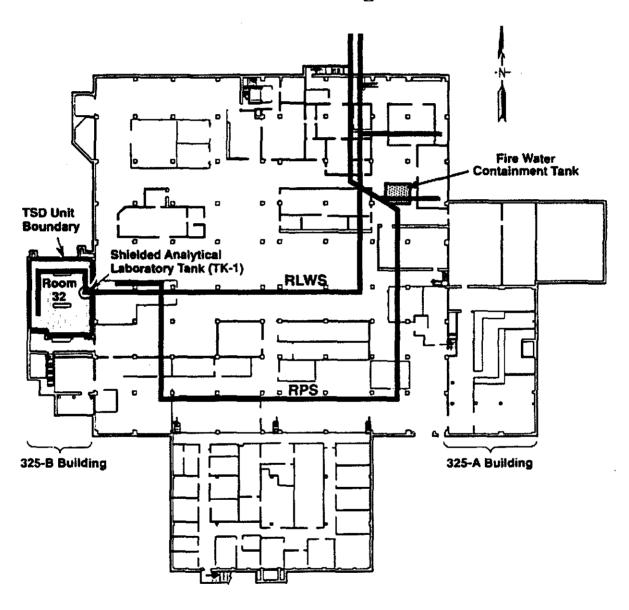
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Location of the Hazardous Waste Treatment Unit and Shielded Analytical Laboratory (main floor).



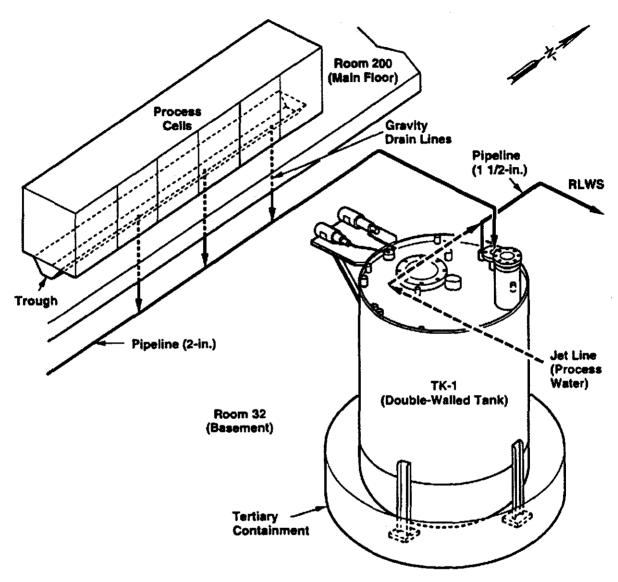
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Location of Shielded Analytical Laboratory Tank in Room 32 and Location of 325 Collection/Loadout Station Tank (basement) of the 325 Building.



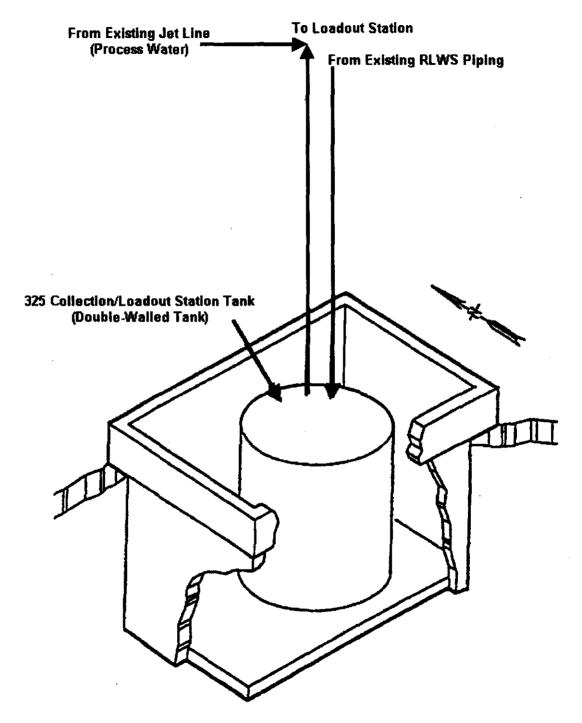
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Shielded Analytical Laboratory Tank and Ancillary Piping

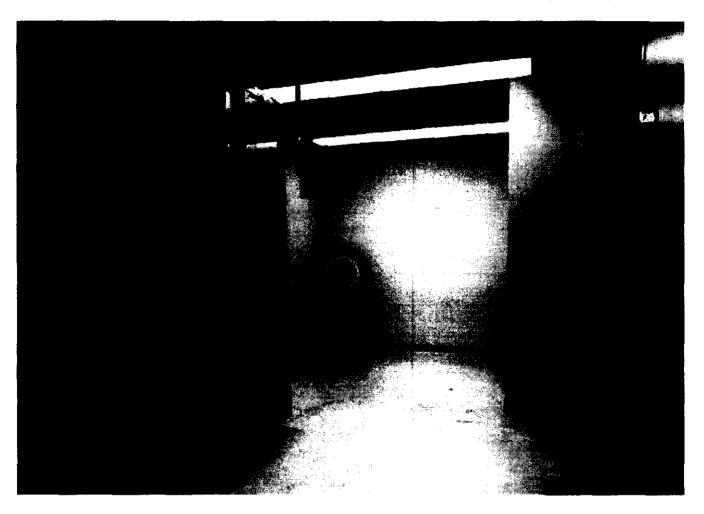


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325 Collection/Loadout Station Tank.



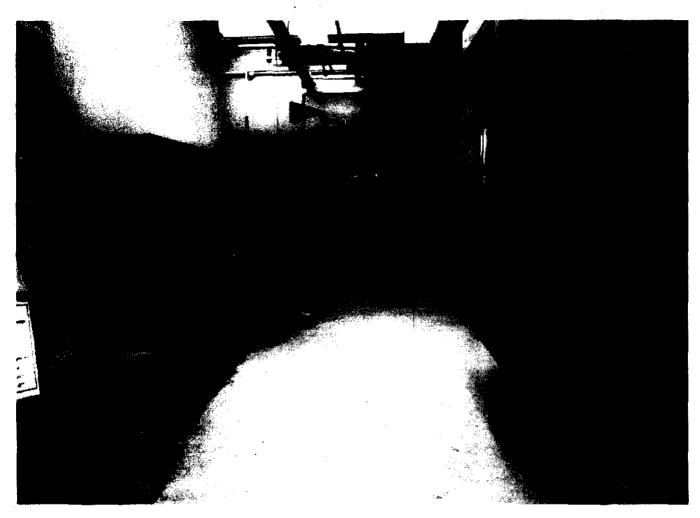
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325 Hazardous Waste Treatment Units Room 528

46°22'6.8" 119°16'42"

96010398-22CN (PHOTO TAKEN 1996)



325 Hazardous Waste Treatment Units Room 528

46°22'6.8" 119°16'42"

96010398-20CN (PHOTO TAKEN 1996)



325 Hazardous Waste Treatment Unit Room 520

46°22'6.8" 119°16'42"

96010398-17CN (PHOTO TAKEN 1996)



Shielded Analytical Laboratory Room 201

46°22'6.8" 119°16'42"

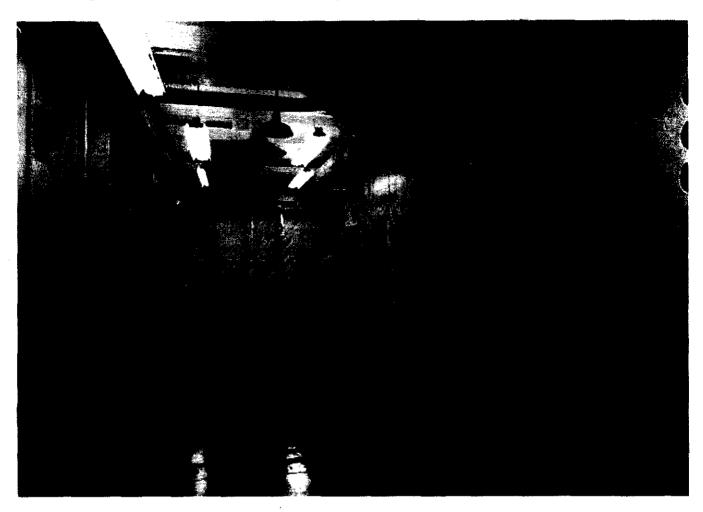
96010398-16CN (PHOTO TAKEN 1996)



Shielded Analytical Laboratory Room 201

46°22'6.8" 119°16'42"

96010398-7CN (PHOTO TAKEN 1996)



Shielded Analytical Laboratory Room 200

46°22'6.8" 119°16'42"

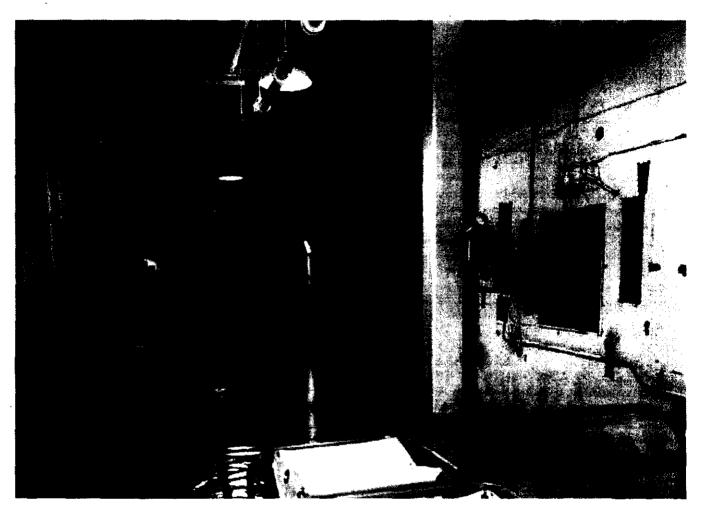
96010398-1CN (PHOTO TAKEN 1996)



Shielded Analytical Laboratory Room 203

46°22'6.8" 119°16'42"

7908247-1CN (PHOTO TAKEN 1979)



Shielded Analytical Laboratory SAL Tank

46°22'6.8" 119°16'42"

96010398-3CN (PHOTO TAKEN 1996)



325 Collection/Loadout Station Tank

46°22'6.8" 119°16'42"

londout (PHOTO TAKEN 1999)